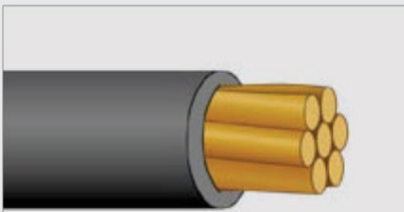


# PHOTOVOLTAIC WIRE UL 4703



## APPLICABLE STANDARDS AND TESTS

- ✓ ASTM B-1, B-3, B33 and B-8
- ✓ CSAC22.2 No.271-11
- ✓ ICEAS-95-658/NEMA WC70, ICEA S-66-524/NEMA WC7
- ✓ NEC NFPA70, NEC310, NEC Section 690.31
- ✓ UL44, UL66, UL83, UL854, UL1581, UL 4703
- ✓ Spark tested at 7500 VAC

## VALUE ADD SERVICE

- ✓ Custom lengths and put-ups
- ✓ 12 available colors
- ✓ Wire paralleling and cabling
- ✓ Wirestripping
- ✓ Custom print legends and labels

## SCOPE

Single conductor photovoltaic wire rated for interconnection wiring of grounded and ungrounded photovoltaic power systems. Approved for Direct Burial rated for a maximum continuous operating temperature between -40°C and 90°C in wet and 105°C in dry conditions.

## CONSTRUCTION

**Conductors:** The single conductors are solid or stranded annealed or hard uncoated or tinned copper.

**Insulation:** Concentrically applied XLP (crosslinked polyethylene) insulation, rated at 600V, 1000V, and 2000V. Sunlight Resistant, FV-1 flame retardant, Oil and Gasoline Resistant Cat I. Optional VW-1 flame retardant available upon request. Optional UV additive available upon request.

## IDENTIFICATION AND PACKAGING

The wire shall be identified by surface marking indicating the manufacturer and AWG size. Products will be identified and surface printed in accordance with the UL requirements. 500 or 2500 feet length bulk reels are standard. Custom lengths, non-standard colors, AWG, and custom packaging are available by request.

AWG	Standard Number of Strands	Alternative /Extra Flexible Stranding	Bending Radius	Insulation Thickness 600V/1 or 2KV	Nominal Overall Diameter (standard strands) 600V/1 or 2KV	Approx. Shipping Weight (Lbs/Mft) 600V/1 or 2KV
14	7,19	41	0.80"/0.92"	60/75	0.20"/0.23"	29/35
12	7,19	65	0.88"/1.00"	60/75	0.22"/0.25"	39/46
10	7,19	37, 49 or 105	0.96"/1.08"	60/75	0.24"/0.27"	54/61
8	7,19	65 or 133	1.20"/1.28"	75/85	0.30"/0.32"	84/90
6	7,19	65 or 133	1.32"/1.4"	75/85	0.33"/0.35"	120/127
4	7	133	1.52"/1.6"	75/85	0.38"/0.40"	174/181
3	7	N/A	1.72"	N/A/85	0.43"	207
2	7	133	1.76"/1.84"	75/85	0.44"/0.46"	258/266
1	19	133	2.12"/2.16"	95/105	0.53"/0.54"	335/345
1/0	19	133	2.24"/2.32"	95/105	0.56"/0.58"	410/420
2/0	19	37	2.44"/2.48"	95/105	0.61"/0.62"	496/507
3/0	19	37	2.64"/2.72"	95/105	0.66"/0.68"	610/622
4/0	19	37	2.88"/2.96"	95/105	0.72"/0.74"	752/765

MCM	Standard# of Strands	Insulation Thickness Mills	Nominal Overall Diameter- Inches	Approx. Shipping Weight (Lbs./Mft)
250	37	120	0.81"	1110
300	37	120	0.87"	1330
350	37	120	0.92"	1400
400	37	120	1.00"	1590
500	37	120	1.05"	1980



SNAP FOR MORE INFORMATION